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<110> DANIEL P. SHOPES, ROBERT J.

<120> METHOD AND COMPOSITION FOR ALTERING A T CELL MEDIATED PATHOLOGY

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&lt;210&gt; 8

&lt;211&gt; 40

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Primer

&lt;400&gt; 8

actagttttt atggtcgtgt acatttctta catctatgcg

40

&lt;210&gt; 9

&lt;211&gt; 28

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Primer

&lt;400&gt; 9

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28

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 <223> Description of Artificial Sequence: Primer

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<220>  
 <223> Description of Artificial Sequence: Primer

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<210> 12  
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 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Primer

<400> 12  
 ctgtgcacct ccttcccatt cac 23

<210> 13  
 <211> 23  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Primer

<400> 13  
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<210> 14  
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 <223> Description of Artificial Sequence: Primer

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<223> Description of Artificial Sequence: Primer

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<210> 16  
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<223> Description of Artificial Sequence: Primer

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<210> 17  
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<223> Description of Artificial Sequence: Primer

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<223> Description of Artificial Sequence: Primer

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<223> Description of Artificial Sequence: Primer

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<211> 37

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

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37

<210> 21

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 21

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35

<210> 22

<211> 43

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 22

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43

<210> 23

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 23

cccaagcttc tattaacact ctccccctgtt gaagct

36

<210> 24

<211> 279

<212> PRT

<213> Unknown Organism

&lt;220&gt;

&lt;223&gt; Description of Unknown Organism: TCR alpha chain

&lt;400&gt; 24

Met Ala Cys Pro Gly Phe Leu Trp Ala Leu Val Ile Ser Thr Cys Leu  
 1 5 10 15  
 Glu Phe Ser Met Ala Gln Thr Val Thr Gln Ser Gln Pro Glu Met Ser  
 20 25 30  
 Val Gln Glu Ala Glu Thr Val Thr Leu Ser Cys Thr Tyr Asp Thr Ser  
 35 40 45  
 Glu Ser Asp Tyr Tyr Leu Phe Trp Tyr Lys Gln Pro Pro Ser Arg Gln  
 50 55 60  
 Met Ile Leu Val Ile Arg Gln Glu Ala Tyr Lys Gln Gln Asn Ala Thr  
 65 70 75 80  
 Glu Asn Arg Phe Ser Val Asn Phe Gln Lys Ala Ala Lys Ser Phe Ser  
 85 90 95  
 Leu Lys Ile Ser Asp Ser Gln Leu Gly Asp Ala Ala Met Tyr Phe Cys  
 100 105 110  
 Ala Tyr Arg Ser Ala Tyr Ser Gly Ala Gly Ser Tyr Gln Leu Thr Phe  
 115 120 125  
 Gly Lys Gly Thr Lys Leu Ser Val Ile Pro Asn Ile Gln Asn Pro Asp  
 130 135 140  
 Pro Ala Val Tyr Gln Leu Arg Asp Ser Lys Ser Ser Asp Lys Ser Val  
 145 150 155 160  
 Cys Leu Phe Thr Asp Phe Asp Ser Gln Thr Asn Val Ser Gln Ser Lys  
 165 170 175  
 Asp Ser Asp Val Tyr Ile Thr Asp Lys Thr Val Leu Asp Met Arg Ser  
 180 185 190  
 Met Asp Phe Lys Ser Asn Ser Ala Val Ala Trp Ser Asn Lys Ser Asp  
 195 200 205  
 Phe Ala Cys Ala Asn Ala Phe Asn Asn Ser Ile Ile Pro Glu Asp Thr  
 210 215 220  
 Phe Phe Pro Ser Pro Glu Ser Ser Cys Asp Val Lys Leu Val Glu Lys  
 225 230 235 240  
 Ser Phe Glu Thr Asp Thr Asn Leu Asn Phe Gln Asn Leu Ser Val Ile  
 245 250 255  
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 260 265 270  
 Thr Leu Arg Leu Trp Ser Ser  
 275

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 <212> PRT  
 <213> Unknown Organism

<220>

<223> Description of Unknown Organism: TCR beta chain

<400> 25

Met	Gly	Thr	Ser	Leu	Leu	Cys	Trp	Met	Ala	Leu	Cys	Leu	Leu	Gly	Ala	1	5	10	15
Asp	His	Ala	Asp	Thr	Gly	Val	Ser	Gln	Asn	Pro	Arg	His	Lys	Ile	Thr	20	25	30	
Lys	Arg	Gly	Gln	Asn	Val	Thr	Phe	Arg	Cys	Asp	Pro	Ile	Ser	Glu	His	35	40	45	
Asn	Arg	Leu	Tyr	Trp	Tyr	Arg	Gln	Thr	Leu	Gly	Gln	Gly	Pro	Glu	Phe	50	55	60	
Leu	Thr	Tyr	Phe	Gln	Asn	Glu	Ala	Gln	Leu	Glu	Lys	Ser	Arg	Leu	Leu	65	70	75	80
Ser	Asp	Arg	Phe	Ser	Ala	Glu	Arg	Pro	Lys	Gly	Ser	Phe	Ser	Thr	Leu	85	90	95	
Glu	Ile	Gln	Arg	Thr	Glu	Gln	Gly	Asp	Ser	Ala	Met	Tyr	Leu	Cys	Ala	100	105	110	
Ser	Ser	Pro	Gly	Thr	Ser	Tyr	Glu	Gln	Tyr	Phe	Gly	Pro	Gly	Thr	Arg	115	120	125	
Leu	Thr	Val	Thr	Glu	Asp	Leu	Lys	Asn	Val	Phe	Pro	Pro	Glu	Val	Ala	130	135	140	
Val	Phe	Glu	Pro	Ser	Glu	Ala	Glu	Ile	Ser	His	Thr	Gln	Lys	Ala	Thr	145	150	155	160
Leu	Val	Cys	Leu	Ala	Thr	Gly	Phe	Tyr	Pro	Asp	His	Val	Glu	Leu	Ser	165	170	175	
Trp	Trp	Val	Asn	Gly	Lys	Glu	Val	His	Ser	Gly	Val	Ser	Thr	Asp	Pro	180	185	190	
Gln	Pro	Leu	Lys	Glu	Gln	Pro	Ala	Leu	Asn	Asp	Ser	Arg	Tyr	Cys	Leu	195	200	205	
Ser	Ser	Arg	Leu	Arg	Val	Ser	Ala	Thr	Phe	Trp	Gln	Asn	Pro	Arg	Asn	210	215	220	
His	Phe	Arg	Cys	Gln	Val	Gln	Phe	Tyr	Gly	Leu	Ser	Glu	Asn	Asp	Glu	225	230	235	240
Trp	Thr	Gln	Asp	Arg	Ala	Lys	Pro	Val	Thr	Gln	Ile	Val	Ser	Ala	Glu	245	250	255	

Ala Trp Gly Arg Ala Asp Cys Gly Phe Thr Ser Glu Ser Tyr Gln Gln  
                   260                                  265                                  270

Gly Val Leu Ser Ala Thr Ile Leu Tyr Glu Ile Leu Leu Gly Lys Ala  
                   275                                  280                                  285

Thr Leu Tyr Ala Val Leu Val Ser Ala Leu Val Leu Met Ala Met Val  
                   290                                  295                                  300

Lys Arg Lys Asp Ser Arg Gly  
                   305                                  310

<210> 26  
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 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Primer

<400> 26  
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<210> 27  
 <211> 24  
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<220>  
 <223> Description of Artificial Sequence: Primer

<400> 27  
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<210> 28  
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<210> 29  
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<220>  
 <223> Description of Artificial Sequence: Primer

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<210> 30  
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 <223> Description of Artificial Sequence: Primer

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<210> 31  
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 <223> Description of Artificial Sequence: Primer

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<210> 34  
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<223> Description of Artificial Sequence: Primer

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<210> 35  
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<223> Description of Artificial Sequence: Primer

<400> 35  
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<210> 36  
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<223> Description of Artificial Sequence: Primer

<400> 36  
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<210> 37  
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<223> Description of Artificial Sequence: Primer

<400> 37  
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<210> 38  
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<223> Description of Artificial Sequence: Primer

<400> 38  
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<210> 39  
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<212> DNA  
<213> Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Primer

&lt;400&gt; 39

gaagtcactt atgagacaca ccag

24

&lt;210&gt; 40

&lt;400&gt; 40

000

&lt;210&gt; 41

&lt;211&gt; 9182

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Plasmid pTRABac/9F12  
DNA sequence

&lt;400&gt; 41

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